

List of Publications by Year in descending order

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169
papers

6,840
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44069

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#	ARTICLE	IF	CITATIONS
1	Molecular structure characterization of middle-high rank coal via XRD, Raman and FTIR spectroscopy: Implications for coalification. <i>Fuel</i> , 2019, 239, 559-572.	6.4	257
2	Gas diffusion in coal particles: A review of mathematical models and their applications. <i>Fuel</i> , 2019, 252, 77-100.	6.4	214
3	Reservoir properties of Chinese tectonic coal: A review. <i>Fuel</i> , 2020, 260, 116350.	6.4	197
4	Role of the rapid gas desorption of coal powders in the development stage of outbursts. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 28, 491-501.	4.4	145
5	Influence of Coalification on the Pore Characteristics of Middle-High Rank Coal. <i>Energy & Fuels</i> , 2014, 28, 5729-5736.	5.1	140
6	A Mathematical Model of Coupled Gas Flow and Coal Deformation with Gas Diffusion and Klinkenberg Effects. <i>Rock Mechanics and Rock Engineering</i> , 2015, 48, 1163-1180.	5.4	132
7	Experimental investigation on the formation and transport mechanism of outburst coal-gas flow: Implications for the role of gas desorption in the development stage of outburst. <i>International Journal of Coal Geology</i> , 2018, 194, 45-58.	5.0	128
8	Experimental study of pore structure and fractal characteristics of pulverized intact coal and tectonic coal by low temperature nitrogen adsorption. <i>Powder Technology</i> , 2019, 350, 15-25.	4.2	124
9	A sequential approach to control gas for the extraction of multi-gassy coal seams from traditional gas well drainage to mining-induced stress relief. <i>Applied Energy</i> , 2014, 131, 67-78.	10.1	111
10	Experimental investigation on coal pore and fracture characteristics based on fractal theory. <i>Powder Technology</i> , 2019, 346, 341-349.	4.2	108
11	Impact of Effective Stress and Matrix Deformation on the Coal Fracture Permeability. <i>Transport in Porous Media</i> , 2014, 103, 99-115.	2.6	105
12	Gas outburst disasters and the mining technology of key protective seam in coal seam group in the Huainan coalfield. <i>Natural Hazards</i> , 2013, 67, 763-782.	3.4	104
13	Impact of pore structure on gas adsorption and diffusion dynamics for long-flame coal. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 22, 203-213.	4.4	103
14	Experimental Investigation of Pore Structure Damage in Pulverized Coal: Implications for Methane Adsorption and Diffusion Characteristics. <i>Energy & Fuels</i> , 2016, 30, 10383-10395.	5.1	99
15	Experimental Study of Coal and Gas Outbursts Related to Gas-Enriched Areas. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 3769-3781.	5.4	99
16	Model development and analysis of the evolution of coal permeability under different boundary conditions. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 31, 129-138.	4.4	94
17	Effects of diffusion and suction negative pressure on coalbed methane extraction and a new measure to increase the methane utilization rate. <i>Fuel</i> , 2017, 197, 70-81.	6.4	94
18	Influence of supercritical CO ₂ on pore structure and functional groups of coal: Implications for CO ₂ sequestration. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 40, 288-298.	4.4	90

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19	Cyclic N ₂ injection for enhanced coal seam gas recovery: A laboratory study. <i>Energy</i> , 2019, 188, 116115.	8.8	87
20	Numerical assessment of the effect of equilibration time on coal permeability evolution characteristics. <i>Fuel</i> , 2015, 140, 81-89.	6.4	86
21	A novel in-seam borehole hydraulic flushing gas extraction technology in the heading face: Enhanced permeability mechanism, gas flow characteristics, and application. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 46, 498-514.	4.4	86
22	Mechanical failure mechanisms and forms of normal and deformed coal combination containing gas: Model development and analysis. <i>Engineering Failure Analysis</i> , 2017, 80, 241-252.	4.0	86
23	Experimental study on the effect of moisture on low-rank coal adsorption characteristics. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 24, 245-251.	4.4	81
24	Modeling and experiments for transient diffusion coefficients in the desorption of methane through coal powders. <i>International Journal of Heat and Mass Transfer</i> , 2017, 110, 845-854.	4.8	81
25	Addressing the CO ₂ emissions of the world's largest coal producer and consumer: Lessons from the Haishiwang Coalfield, China. <i>Energy</i> , 2015, 80, 400-413.	8.8	80
26	Effects of Supercritical CO ₂ Fluids on Pore Morphology of Coal: Implications for CO ₂ Geological Sequestration. <i>Energy & Fuels</i> , 2017, 31, 4731-4741.	5.1	80
27	New insights into the CH ₄ adsorption capacity of coal based on microscopic pore properties. <i>Fuel</i> , 2020, 262, 116675.	6.4	78
28	Characteristics of microscopic pore structure and fractal dimension of bituminous coal by cyclic gas adsorption/desorption: An experimental study. <i>Fuel</i> , 2018, 232, 495-505.	6.4	77
29	Pore structure characterization of coal particles via MIP, N ₂ and CO ₂ adsorption: Effect of coalification on nanopores evolution. <i>Powder Technology</i> , 2019, 354, 136-148.	4.2	72
30	Permeability distribution characteristics of protected coal seams during unloading of the coal body. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2014, 71, 105-116.	5.8	69
31	Methane drainage and utilization in coal mines with strong coal and gas outburst dangers: A case study in Luling mine, China. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 20, 357-365.	4.4	68
32	Pulverization characteristics of coal from a strong outburst-prone coal seam and their impact on gas desorption and diffusion properties. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 33, 867-878.	4.4	67
33	Reservoir reconstruction technologies for coalbed methane recovery in deep and multiple seams. <i>International Journal of Mining Science and Technology</i> , 2017, 27, 277-284.	10.3	67
34	Apparent and True Diffusion Coefficients of Methane in Coal and Their Relationships with Methane Desorption Capacity. <i>Energy & Fuels</i> , 2017, 31, 2643-2651.	5.1	66
35	An analysis of the gas-solid plug flow formation: New insights into the coal failure process during coal and gas outbursts. <i>Powder Technology</i> , 2017, 305, 39-47.	4.2	66
36	Research on comprehensive CBM extraction technology and its applications in China's coal mines. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 20, 200-207.	4.4	65

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37	Evaluation of the remote lower protective seam mining for coal mine gas control: A typical case study from the Zhuxianzhuang Coal Mine, Huaibei Coalfield, China. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 33, 44-55.	4.4	62
38	The elimination of coal and gas outburst disasters by long distance lower protective seam mining combined with stress-relief gas extraction in the Huaibei coal mine area. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 27, 346-353.	4.4	59
39	Experimental investigation of CO ₂ injection into coal seam reservoir at in-situ stress conditions for enhanced coalbed methane recovery. <i>Fuel</i> , 2019, 236, 709-716.	6.4	59
40	Effects of coal rank on physicochemical properties of coal and on methane adsorption. <i>International Journal of Coal Science and Technology</i> , 2017, 4, 129-146.	6.0	58
41	Architecture, stress state and permeability of a fault zone in Jiulishan coal mine, China: Implication for coal and gas outbursts. <i>International Journal of Coal Geology</i> , 2018, 198, 1-13.	5.0	58
42	Role of Tectonic Coal in Coal and Gas Outburst Behavior During Coal Mining. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 4619-4635.	5.4	58
43	Effect of Adsorption Contact Time on Coking Coal Particle Desorption Characteristics. <i>Energy & Fuels</i> , 2014, 28, 2287-2296.	5.1	54
44	CBM drainage engineering challenges and the technology of mining protective coal seam in the Dalong Mine, Tiefa Basin, China. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 24, 412-424.	4.4	53
45	Model development and simulation study of the feasibility of enhancing gas drainage efficiency through nitrogen injection. <i>Fuel</i> , 2017, 194, 406-422.	6.4	53
46	Experimental study of the mechanical properties of intact and tectonic coal via compression of a single particle. <i>Powder Technology</i> , 2018, 325, 412-419.	4.2	51
47	Effect of moisture on the desorption and unsteady-state diffusion properties of gas in low-rank coal. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 57, 45-51.	4.4	51
48	Enhancement of gas drainage efficiency in a special thick coal seam through hydraulic flushing. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019, 124, 104085.	5.8	51
49	A new effective method and new materials for high sealing performance of cross-measure CMM drainage boreholes. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 21, 805-813.	4.4	49
50	Effect of bedding structural diversity of coal on permeability evolution and gas disasters control with coal mining. <i>Natural Hazards</i> , 2014, 73, 531-546.	3.4	49
51	Unsteady-State Diffusion of Gas in Coals and Its Relationship with Coal Pore Structure. <i>Energy & Fuels</i> , 2016, 30, 7014-7024.	5.1	49
52	Effect of particle size and adsorption equilibrium time on pore structure characterization in low pressure N ₂ adsorption of coal: An experimental study. <i>Advanced Powder Technology</i> , 2020, 31, 4275-4281.	4.1	49
53	Pore morphology characterization and its effect on methane desorption in water-containing coal: An exploratory study on the mechanism of gas migration in water-injected coal seam. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 75, 103152.	4.4	48
54	Energy-limiting factor for coal and gas outburst occurrence in intact coal seam. <i>International Journal of Mining Science and Technology</i> , 2021, 31, 729-742.	10.3	48

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55	CMM capture engineering challenges and characteristics of in-situ stress distribution in deep level of Huainan coalfield. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 20, 328-336.	4.4	47
56	Comparative analysis of pore structure parameters of coal by using low pressure argon and nitrogen adsorption. <i>Fuel</i> , 2022, 309, 122120.	6.4	47
57	The effect of sedimentary redbeds on coalbed methane occurrence in the Xutuan and Zhaoji Coal Mines, Huaibei Coalfield, China. <i>International Journal of Coal Geology</i> , 2015, 137, 111-123.	5.0	45
58	Investigation of the formation mechanism of coal spallation through the cross-coupling relations of multiple physical processes. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 105, 133-144.	5.8	45
59	Master role conversion between diffusion and seepage on coalbed methane production: Implications for adjusting suction pressure on extraction borehole. <i>Fuel</i> , 2018, 223, 373-384.	6.4	45
60	The impact of faults on the occurrence of coal bed methane in Renlou coal mine, Huaibei coalfield, China. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 17, 151-158.	4.4	43
61	Application of in-seam directional drilling technology for gas drainage with benefits to gas outburst control and greenhouse gas reductions in Daning coal mine, China. <i>Natural Hazards</i> , 2014, 73, 1419-1437.	3.4	43
62	New insights into the permeability-increasing area of overlying coal seams disturbed by the mining of coal. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 49, 352-364.	4.4	43
63	Asynchronous difference in dynamic characteristics of adsorption swelling and mechanical compression of coal: Modeling and experiments. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 135, 104498.	5.8	43
64	Effects of coal pore structure on methane-coal sorption hysteresis: An experimental investigation based on fractal analysis and hysteresis evaluation. <i>Fuel</i> , 2020, 269, 117438.	6.4	42
65	Methane and coal exploitation strategy of highly outburst-prone coal seam configurations. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 23, 63-69.	4.4	41
66	Influence of the injected water on gas outburst disasters in coal mine. <i>Natural Hazards</i> , 2015, 76, 1093-1109.	3.4	41
67	Effect of confining pressure unloading on strength reduction of soft coal in borehole stability analysis. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	2.7	41
68	Gas desorption characteristics of the high-rank intact coal and fractured coal. <i>International Journal of Mining Science and Technology</i> , 2015, 25, 819-825.	10.3	40
69	Characterization of pore structure and the gas diffusion properties of tectonic and intact coal: Implications for lost gas calculation. <i>Chemical Engineering Research and Design</i> , 2020, 135, 12-21.	5.6	40
70	The elimination of coal and gas outburst disasters by ultrathin protective seam drilling combined with stress-relief gas drainage in Xinggong coalfield. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 21, 837-844.	4.4	39
71	Interactions between coal seam gas drainage boreholes and the impact of such on borehole patterns. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 38, 597-607.	4.4	39
72	Numerical assessment of CMM drainage in the remote unloaded coal body: Insights of geostress-relief gas migration and coal permeability. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 45, 487-501.	4.4	39

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73	Microcrystalline Characterization and Morphological Structure of Tectonic Anthracite Using XRD, Liquid Nitrogen Adsorption, Mercury Porosimetry, and Micro-CT. <i>Energy & Fuels</i> , 2019, 33, 10844-10851.	5.1	37
74	Experimental investigation of the constant and time-dependent dynamic diffusion coefficient: Implication for CO ₂ injection method. <i>Fuel</i> , 2020, 267, 117283.	6.4	36
75	3D visualization of tectonic coal microstructure and quantitative characterization on topological connectivity of pore-fracture networks by Micro-CT. <i>Journal of Petroleum Science and Engineering</i> , 2022, 208, 109675.	4.2	35
76	Experimental observations of matrix swelling area propagation on permeability evolution using natural and reconstituted samples. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 34, 680-688.	4.4	33
77	Square-form structure failure model of mining-affected hard rock strata: theoretical derivation, application and verification. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	33
78	Size effect on uniaxial compressive strength of single coal particle under different failure conditions. <i>Powder Technology</i> , 2019, 345, 169-181.	4.2	33
79	A Novel In-Seam Borehole Discontinuous Hydraulic Flushing Technology in the Driving Face of Soft Coal Seams: Enhanced Gas Extraction Mechanism and Field Application. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 885-907.	5.4	33
80	The Energy Principle of Coal and Gas Outbursts: Experimentally Evaluating the Role of Gas Desorption. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 11-30.	5.4	32
81	Influence of matrix size and pore damage path on the size dependence of gas adsorption capacity of coal. <i>Fuel</i> , 2021, 283, 119289.	6.4	32
82	A novel technology for enhancing coalbed methane extraction: Hydraulic cavitating assisted fracturing. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 72, 103040.	4.4	30
83	Influence of thermal metamorphism on CBM reservoir characteristics of low-rank bituminous coal. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 36, 916-930.	4.4	29
84	Gas ejection accident analysis in bed splitting under igneous sills and the associated control technologies: a case study in the Yangliu Mine, Huaibei Coalfield, China. <i>Natural Hazards</i> , 2014, 71, 109-134.	3.4	28
85	A fractal theory based fractional diffusion model used for the fast desorption process of methane in coal. <i>Chaos</i> , 2013, 23, 033111.	2.5	27
86	Gas transport through coal particles: Matrix-flux controlled or fracture-flux controlled?. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 76, 103216.	4.4	27
87	Experiments on the effects of igneous sills on the physical properties of coal and gas occurrence. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 19, 98-104.	4.4	26
88	Influence of tectonic evolution on pore structure and fractal characteristics of coal by low pressure gas adsorption. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 87, 103788.	4.4	26
89	Experimental investigation into the damage-induced permeability and deformation relationship of tectonically deformed coal from Huainan coalfield, China. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 60, 202-213.	4.4	25
90	Analysis of coal permeability rebound and recovery during methane extraction: Implications for carbon dioxide storage capability assessment. <i>Fuel</i> , 2018, 230, 298-307.	6.4	25

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91	Definition, theory, methods, and applications of the safe and efficient simultaneous extraction of coal and gas. <i>International Journal of Coal Science and Technology</i> , 2015, 2, 52-65.	6.0	24
92	Geological Control of Fold Structure on Gas Occurrence and Its Implication for Coalbed Gas Outburst: Case Study in the Qinan Coal Mine, Huaibei Coalfield, China. <i>Natural Resources Research</i> , 2020, 29, 1375-1395.	4.7	24
93	Effects of composition changes of coal treated with hydrochloric acid on pore structure and fractal characteristics. <i>Fuel</i> , 2021, 294, 120506.	6.4	24
94	Experimental study on the guiding effect of tectonic coal for coal and gas outburst. <i>Fuel</i> , 2022, 309, 122087.	6.4	24
95	Measurement of pressure drop in drainage boreholes and its effects on the performance of coal seam gas extraction: a case study in the Jiulishan Mine with strong coal and gas outburst dangers. <i>Natural Hazards</i> , 2014, 71, 1475-1493.	3.4	23
96	Surface energy of coal particles under quasi-static compression and dynamic impact based on fractal theory. <i>Fuel</i> , 2020, 264, 116835.	6.4	23
97	Numerical assessment of the critical factors in determining coal seam permeability based on the field data. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 74, 103098.	4.4	23
98	Characteristics and dominant controlling factors of gas outburst in Huaibei coalfield and its countermeasures. <i>International Journal of Mining Science and Technology</i> , 2013, 23, 591-596.	10.3	22
99	Application of Hydraulic Flushing in Coal Seams To Reduce Hazardous Outbursts in the Mengjin Mine, China. <i>Environmental and Engineering Geoscience</i> , 2018, 24, 425-440.	0.9	22
100	Permeability Prediction in Deep Coal Seam: A Case Study on the No. 3 Coal Seam of the Southern Qinshui Basin in China. <i>Scientific World Journal</i> , The, 2013, 2013, 1-10.	2.1	21
101	Effect of silica sol on the sealing mechanism of a coalbed methane reservoir: New insights into enhancing the methane concentration and utilization rate. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 56, 51-61.	4.4	21
102	Effect of Pulverization on the Microporous and Ultramicroporous Structures of Coal Using Low-Pressure CO ₂ Adsorption. <i>Energy & Fuels</i> , 2019, 33, 10611-10621.	5.1	20
103	Comparison of transient and pseudo-steady diffusion of methane in coal and implications for coalbed methane control. <i>Journal of Petroleum Science and Engineering</i> , 2020, 184, 106543.	4.2	20
104	Experimental study on influence of adsorption equilibrium time on methane adsorption isotherm and Langmuir parameter. <i>Advanced Powder Technology</i> , 2021, 32, 4110-4119.	4.1	20
105	The effect of leakage characteristics of liquid CO ₂ phase transition on fracturing coal seam: Applications for enhancing coalbed methane recovery. <i>Fuel</i> , 2022, 308, 122044.	6.4	20
106	Experimental study on methane adsorption and time-dependent dynamic diffusion coefficient of intact and tectonic coals: Implications for CO ₂ -enhanced coalbed methane projects. <i>Chemical Engineering Research and Design</i> , 2021, 156, 568-580.	5.6	20
107	Experimental investigation on the diffusion property of different form coal: Implication for the selection of CO ₂ storage reservoir. <i>Fuel</i> , 2022, 318, 123691.	6.4	19
108	Evolution of gas transport pattern with the variation of coal particle size: Kinetic model and experiments. <i>Powder Technology</i> , 2020, 367, 336-346.	4.2	18

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109	Numerical assessment of the influences of coal permeability and gas pressure inhomogeneous distributions on gas drainage optimization. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 45, 797-811.	4.4	17
110	Experimental Investigation on the Effects of Supercritical Carbon Dioxide on Coal Permeability: Implication for CO ₂ Injection Method. <i>Energy & Fuels</i> , 2019, 33, 503-512.	5.1	17
111	Powder Mass of Coal After Impact Crushing: A New Fractal-Theory-Based Index to Evaluate Rock Firmness. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 4251-4270.	5.4	17
112	Effect of gas adsorption on breakage energy of tectonic coal particles. <i>Powder Technology</i> , 2022, 406, 117575.	4.2	17
113	Permeability enhancements of borehole outburst cavitation in outburst-prone coal seams. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 111, 12-20.	5.8	16
114	Hydraulic flushing in soft coal sublayer: Gas extraction enhancement mechanism and field application. <i>Energy Science and Engineering</i> , 2019, 7, 1970-1993.	4.0	16
115	Calculation of gas concentration-dependent diffusion coefficient in coal particles: Influencing mechanism of gas pressure and desorption time on diffusion behavior. <i>Fuel</i> , 2022, 320, 123973.	6.4	16
116	Effect of Water Invasion on Outburst Predictive Index of Low Rank Coals in Dalong Mine. <i>PLoS ONE</i> , 2015, 10, e0132355.	2.5	15
117	A Langmuir-like desorption model for reflecting the inhomogeneous pore structure of coal and its experimental verification. <i>RSC Advances</i> , 2015, 5, 2434-2440.	3.6	15
118	Effects of equilibrium time and adsorption models on the characterization of coal pore structures based on statistical analysis of adsorption equilibrium and disequilibrium data. <i>Fuel</i> , 2020, 281, 118770.	6.4	15
119	Fracture processes in coal measures strata under liquid CO ₂ phase transition blasting. <i>Engineering Fracture Mechanics</i> , 2021, 254, 107902.	4.3	15
120	Effect of particle size on gas energy release for tectonic coal during outburst process. <i>Fuel</i> , 2022, 307, 121888.	6.4	14
121	Characteristics of mining gas channel expansion in the remote overlying strata and its control of gas flow. <i>International Journal of Mining Science and Technology</i> , 2013, 23, 481-487.	10.3	13
122	Experimental Investigation on the Mechanism of Coal and Gas Outburst: Novel Insights on the Formation and Development of Coal Spallation. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 5807-5825.	5.4	13
123	A novel technology for high-efficiency borehole-enlarging to enhance gas drainage in coal seam by mechanical cutting assisted by waterjet. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022, 44, 1336-1353.	2.3	12
124	Study on the stress relief and permeability increase in a special low-permeability thick coal seam to stimulate gas drainage. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020, 42, 1001-1013.	2.3	12
125	Laboratory quantification of coal permeability reduction effect during carbon dioxide injection process. <i>Chemical Engineering Research and Design</i> , 2021, 148, 638-649.	5.6	12
126	Quantitative analysis of difference in CH ₄ and CO ₂ adsorption on coal surface. $\frac{dV}{dt} = k_1 P (V_{\infty} - V) - k_2 V$ and $\frac{dV}{dt} = k_1 P (V_{\infty} - V) - k_2 V$	4.4	12

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127	Quantitative investigation on the structural characteristics of thermally metamorphosed coal: evidence from multi-spectral analysis technology. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	2.7	11
128	Effects of tectonism on the pore characteristics and methane diffusion coefficient of coal. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	1.3	10
129	Morphological Characterization of the Microcrystalline Structure of Tectonic Coal and Its Intrinsic Connection with Ultra-micropore Evolution. <i>Energy & Fuels</i> , 2022, 36, 1482-1494.	5.1	10
130	Multiscale morphological and topological characterization of coal microstructure: Insights into the intrinsic structural difference between original and tectonic coals. <i>Fuel</i> , 2022, 321, 124076.	6.4	10
131	Effects of Igneous Intrusion on Microporosity and Gas Adsorption Capacity of Coals in the Haizi Mine, China. <i>Scientific World Journal</i> , The, 2014, 2014, 1-12.	2.1	8
132	An improved method for high efficiency coal mine methane drainage: Theoretical analysis and field verification. <i>Energy Science and Engineering</i> , 2018, 6, 739-748.	4.0	8
133	Effects of pore morphology and moisture on CBM related sorption induced coal deformation: An experimental investigation. <i>Energy Science and Engineering</i> , 2021, 9, 1180-1201.	4.0	8
134	Threshold pressure gradient for helium seepage in coal and its application to equivalent seepage channel characterization. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 96, 104231.	4.4	8
135	New Insights into Failure Behaviors of Tectonic Coal Under Triaxial Conditions Using Reconstituted Coal Specimens. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 1361-1374.	5.4	8
136	\hat{I}^*P index with different gas compositions for instantaneous outburst prediction in coal mines. <i>Mining Science and Technology</i> , 2010, 20, 723-726.	0.3	7
137	Stress evolution and coal seam deformation through the mining of a remote upper protective layer. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-11.	2.3	7
138	Microscale Research on Effective Geosequestration of CO ₂ in Coal Reservoir: A Natural Analogue Study in Haishiwan Coalfield, China. <i>Geofluids</i> , 2018, 2018, 1-12.	0.7	7
139	Optimal selection of coal seam pressure-relief gas extraction technologies: a typical case of the Panyi Coal Mine, Huainan coalfield, China. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019, , 1-21.	2.3	7
140	Establishment of the equivalent structural model for the tectonic coal and some implications for the methane migration. <i>RSC Advances</i> , 2020, 10, 9791-9797.	3.6	7
141	Pressure Relief Mechanism and Gas Extraction Method during the Mining of the Steep and Extra-Thick Coal Seam: A Case Study in the Yaojie No. 3 Coal Mine. <i>Energies</i> , 2022, 15, 3792.	3.1	7
142	Non-Darcy Flow in Hydraulic Flushing Hole Enlargement-Enhanced Gas Drainage: Does It Really Matter?. <i>Geofluids</i> , 2018, 2018, 1-15.	0.7	6
143	Analysis of pulverized tectonic coal gas expansion energy in underground mines and its influence on the environment. <i>Environmental Science and Pollution Research</i> , 2020, 27, 1508-1520.	5.3	6
144	Potential infrasonic tremors in coal seam systems: Implications for the prediction of coal and gas outbursts. <i>Fuel</i> , 2022, 326, 125000.	6.4	6

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145	Fissure evolution and evaluation of pressure-relief gas drainage in the exploitation of super-remote protected seams. <i>Mining Science and Technology</i> , 2010, 20, 178-182.	0.3	5
146	Sponge Effect on Coal Mine Methane Separation Based on Clathrate Hydrate Method. <i>Chinese Journal of Chemical Engineering</i> , 2011, 19, 610-614.	3.5	5
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